

1/9/31 (Item 31 from file: 351)  
DIALOG(R)File 351:DERWENT WPI  
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DNA fragment with good promoter activity in plant cells - used for  
expression vector of various kinds of foreign gene  
Index Terms: DNA FRAGMENT PROMOTE ACTIVE PLANT CELL EXPRESS VECTOR  
VARIOUS

KIND FOREIGN GENE  
Patent Assignee: (TOYM) TOYOBO KK  
Number of Patents: 001  
Number of Countries: 001

Patent Family:  
Patent No Kind Date Week Applic No Date LA Pages IPC  
JP 4126088 A 920427 9223 JP 90244779 900914 7 C12N-015/81 (B)

Priority Data (CC No Date): JP 90244779 (900914)  
Abstract (Basic): JP 04126088 A

The following is new: (1) a DNA fragment which contains all or part of a base sequence having 532 amino acid residues which has promoter activity. (DNA fragment is derived from peroxidase isozyme gene of *Armoracia rusticana* and has promoter activity in plant or yeast); (2) a vector in which DNA fragment of (1) is inserted. (foreign gene is under transcriptional control of promoter, encodes physiological activity having polypeptide, and is selected from at least one kind of beta-glucuroninase, peroxidase, ascorbate oxidase, luciferase); and (3) host transformed by vector (2) (the host is plant or yeast).

USE/ADVANTAGE - The DNA fragment has good promoter activity in plant cell, etc. It can be used for expression vector of various kinds of foreign gene. The vector can express various kinds of useful polypeptide in host efficiently. Dwg.0/0

File Segment: CPI

Derwent Class: B04; C06; D16;

Int Pat Class: C12N-001/19; C12N-005/10; C12N-015/53; C12N-015/81;  
C12N-015/82; C12P-021/02

Manual Codes (CPI/A-N): B04-B02B2; C04-B02B2; B04-B04A1; C04-B04A1;  
B04-B04A2; C04-B04A2; D05-C11; D05-H03B; D05-H12

Chemical Fragment Codes (M1):

\*01\* M423 M710 M903 N132 N136 N137 Q233 V400 V406 V500 V550 V753

L4 ANSWER 1 OF 1 DGENE COPYRIGHT 1997 DERWENT INFORMATION LTD

AN 92N-Q24835 DNA DGENE

TI DNA fragment with good \*\*\*promoter\*\*\* activity in plant cells -  
used for expression vector of various kinds of foreign gene

PA (TOYM) TOYOBO KK

PI JP 04126088 A 920427 7 pp

AI JP 90-244779 900914

PRAI JP 90-244779 900914

PSL Claim 1; Page 1

DED 25 NOV 1992 (first entry)

DT Patent

LA Japanese

OS 92-189675 [23]

DESC \*\*\*Peroxidase\*\*\* isozyme gene fragment

KW \*\*\*Promoter\*\*\* activity; expression vector; ss

ORGN \*\*\*Armoracia\*\*\* rusticana

AB The sequence given is a DNA fragment which has \*\*\*promoter\*\*\*  
activity. It is derived from the \*\*\*peroxidase\*\*\* isozyme gene  
and has strong \*\*\*promoter\*\*\* activity in plants and yeast.  
This sequence can be used in expression vectors for various kinds  
of foreign genes eg. beta- glucuronidase, \*\*\*peroxidase\*\*\* ,  
ascorbate oxidase and luciferase

NA 210 A; 71 C; 58 G; 193 T;

SQL 532

SEQ

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1 ctagagtcac ttccattttt ataatttat agtttatgat agatcataaa
51 ttgaattta taatatatgt gtttgcaaat ttgcataaga aattcattag
101 taccttttat ttatcgtgta aatattttt ttctaaatat taaatattta
151 agttgaaact acaaatttat aaaaatacaa attgaattta taaatgtatt
201 caaagtacat aaaagaaaag attctatatt ataaacacgt gatattcttt
251 aaattttaat ccaatttgcc gaaagaaaac agaaactttt aaaccacttt
301 gtacagaatt attaaacaca ttgtcgtatt atcttcaca tgtaataagt
351 caggtattgg ataagagtat atttatacac cacttgagta caaatatctc
401 caataattca caaaaagtaa aagccgccga gcttcctttt ttgcttataa
451 aaggatttgt taagacgaaa ctttattcac tcaactcaa acctaaccac
501 agaattttat ctagagagc aaagaaaatg ca
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